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ABSTRACT OF THE DISCLOSURE

A bearing device for a wheel, where preload control is easy and a uniform amount of preload can be applied even if a bearing seal is installed in the bearing device. The bearing device rotatably supports a wheel and has an outer member (1), an inner member (2), and rolling elements (3) interposed between both members. The outer member (1) has on its outer periphery a vehicle body installation flange (1a), and double row rolling surfaces (6, 7) are formed on the inner peripheries of the outer member. Rolling surfaces (8, 9) facing the rolling surfaces (6, 7) of the outer member (1) are formed on the inner member (2). Between the rolling surfaces of both members (1, 2) are interposed the rolling elements (3). A sensor (4) for detecting the amount of preload of the bearing is provided on either the outer member (1) or the inner member (2).